

ST. FRANCIS RIVER BASIN

07037300 BIG CREEK AT SAM A. BAKER STATE PARK
(Ambient water-quality monitoring network)

AWATER-QUALITY RECORDS

LOCATION.--Lat 37°15'40", long 90°30'23", in NE 1/4 SW 1/4 sec.21, T.30 N., R.5 E., Wayne County, Hydrologic Unit 08020202, at bridge 435 on County Highway NN.

PERIOD OF RECORD.--November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH µm-MF LEVEL) (mg/L) (00340)	COLI-FORM, FECAL, 0.7 KF AGAR (COLS. PER 100 mL) (31625)	STREP-TOCOCCHI, FECAL, 0.7 KF AGAR (COLS. PER 100 mL) (31673)	ALKA-LINITY WAT WH TOT FET FIELD (mg/L as CaCO ₃) (00410)
NOV 1996											
06...	0830	97	14.0	271	7.98	8.9	85	--	K8	185	124
JAN 1997											
21...	1645	170	5.5	231	8.07	12.9	101	<10	34	59	100
MAR											
26...	1440	300	11.5	180	7.68	12.2	110	--	K1	K2	82
APR											
07...	1715	810	14.5	144	6.95	11.0	105	--	20	K12	56
JUN											
10...	1840	130	19.0	220	7.82	10.3	111	<5	K5	K19	109
AUG											
05...	1610	22	28.0	277	7.40	7.9	97	--	K21	K23	129

DATE	BICAR-BONATE WATER WH IT FIELD (mg/L as HCO ₃) (00450)	CAR-BONATE WATER WH IT FIELD (mg/L as CO ₃) (00447)	NITRO-GEN, NO ₂ +NO ₃ TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	HARD-NESS TOTAL (mg/L as CaCO ₃) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)
NOV 1996										
06...	151	0	0.160	<0.010	<0.010	<0.20	<0.020	<0.010	--	--
JAN 1997										
21...	123	0	0.170	<0.010	0.020	<0.20	<0.020	<0.010	110	23
MAR										
26...	100	0	0.060	<0.010	0.020	<0.20	<0.020	0.020	--	--
APR										
07...	69	0	0.090	<0.010	0.010	<0.20	0.020	<0.010	--	--
JUN										
10...	133	0	0.030	<0.010	<0.010	<0.20	<0.020	<0.010	110	24
AUG										
05...	157	0	0.060	<0.010	0.020	<0.20	<0.020	<0.010	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)	SULFATE DIS-SOLVED (mg/L as SO ₄) (00945)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
JAN 1997										
21...	13	2.8	0.90	9.3	3.1	<0.10	114	5	30	24
JUN										
10...	13	2.2	1.2	8.2	2.2	<0.10	118	4	20	4.3

DATE	CADMIUM TOTAL RECOV-ERABLE (µg/L as Cd) (01027)	CADMIUM DIS-SOLVED (µg/L as Cu) (01025)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)
JAN 1997										
21...	<1	<1.0	<1.0	20	<1	<1.0	2.8	<0.10	2	<1.0
JUN										
10...	<1	<1.0	<1.0	2.0	1	<1.0	2.7	<0.10	<1	<1.0

K--Results based on colony count outside the acceptable range (non-ideal colony count).